In re A	IN THE UNITED STATES PATENT AND TRADEMARK OFFIC  Application of:  )	
	KEL et al.	) Applications
		) }
Serial No. Not Assigned		)
Filed:		) )
For:	CRYSTALLINE CHOLINE ASCORB	) NTE

## **PRELIMINARY AMENDMENT**

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Prior to examination, kindly amend the above-identified application as follows.

### IN THE CLAIMS

Please amend the claims as shown in the attached sheets.

#### REMARKS

The claims have been amended to eliminate multiple dependency. No new matter has been added. A clean copy of the claims is attached.

Entry of the above amendment is respectfully solicited.

Respectfully submitted,

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# **CLEAN VERSION OF AMENDED CLAIMS - 52203**

- 3. A crystalline choline ascorbate as claimed in claim 1, wherein the diffraction lines at d = 3.80 Å and 4.55 Å are most intense in the range between 3.40 and 4.70 Å in the 2  $\Theta$  X-ray powder diffractogram
- 9. A choline ascorbate obtainable by a process defined according to claim 6.
- 10. The use of choline ascorbate defined according to claim 1 for producing drugs.
- 11. The use of choline ascorbate defined according to claim 1 as additive in foods, animal feeds, or as a component in food supplements.

# **MARKED VERSION OF AMENDED CLAIMS - 52203**

- 3. A crystalline choline ascorbate as claimed in <u>claim 1</u> [either of claims 1 or 2], wherein the diffraction lines at d = 3.80 Å and 4.55 Å are most intense in the range between 3.40 and 4.70 Å in the 2  $\Theta$  X-ray powder diffractogram
- 9. A choline ascorbate obtainable by a process defined according to <u>claim 6</u> [one of claims 6 to 8].
- 10. The use of choline ascorbate defined according to <u>claim 1</u> [one of claims 1 or 9] for producing drugs.
- 11. The use of choline ascorbate defined according to <u>claim 1</u> [one of claims 1 or 9] as additive in foods, animal feeds, or as a component in food supplements.

#### CLAIMS AS FILED - 52203

- A crystalline choline ascorbate
- 2. A crystalline choline ascorbate as claimed in claim 1 in the form of crystals free from water of crystallization.
- 3. A crystalline choline ascorbate as claimed in claim 1, wherein the diffraction lines at d = 3.80 Å and 4.55 Å are most intense in the range between 3.40 and 4.70 Å in the 2  $\Theta$  x-ray powder diffractogram
- 4. A crystalline choline ascorbate as claimed in claim 3, wherein the intensity ratio of the diffraction lines at d=3.80 Å and d=4.55 Å is at least 0.5.
- 5. A crystalline choline ascorbate as claimed in claim 3, wherein the intensity ratio of the diffraction lines at d=3.80 Å and d=4.67 Å is at least 0.4.
- 6. A process for preparing crystalline choline ascorbate by reacting ascorbic acid with trimethylamine and ethylene oxide, which comprises carrying out the reaction in the temperature range from -105C to 405C.
- 7. A process as claimed in claim 6, wherein the reaction is carried out in a water-miscible organic solvent.
- 8. A process as claimed in claim 7, wherein choline ascorbate is crystallized in the solvent used for the reaction.
- A choline ascorbate obtainable by a process defined according to claim
   6.
- 10. The use of choline ascorbate defined according to claim 1 for producing drugs.
- 11. The use of choline ascorbate defined according to claim 1 as additive in foods, animal feeds, or as a component in food supplements.